

FINGERPRINT READER USING SURFACE ACOUSTIC WAVE DEVICE

ABSTRACT OF THE DISCLOSURE

An access control method achieves enhanced security and accuracy compared with other systems through recognition of one or more distorted biometrics. The method includes outputting a distorted biometric print from a surface acoustic wave (SAW) device into an identification system, comparing the distorted print to one or more distortion patterns, and controlling access to a restricted item based on results of the comparison. The distorted print may be formed based on a transfer function or excitation frequency of the SAW device, or may be formed by a mask pattern located on or between a sensing surface of the SAW device. The print may be a fingerprint, thumb print, and palm print.